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PERFORMANCE OF  
SOYBEAN VARIETIES  
IN ALABAMA,  
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Department of Agronomy and Soils  
Alabama Agricultural Experiment Station  
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Information contained herein is available to all persons  
regardless of race, color, sex, or national origin.

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# PERFORMANCE OF SOYBEAN VARIETIES IN ALABAMA, 1992

K. M. Glass and D. I. Bransby<sup>1</sup>

## INTRODUCTION

Soybean variety tests are conducted annually by the Alabama Agricultural Experiment Station. The 9 locations used represent the major soil and climatic regions of Alabama. These locations are divided into logical soybean growing regions. The regions and locations are:

<u>Region</u>	<u>Location</u>
Northern	Belle Mina, Crossville
Central	Camden, Prattville
Southern	Brewton, Headland
Black Belt	Marion Junction (2 soils)
Gulf Coast	Fairhope

## EXPERIMENTAL PROCEDURES

The standard tests were designed as a randomized complete block with four replications. Plot size was four 24- to 36-inch rows 20 feet long. Sixteen feet of the middle two rows were harvested for yield. Seeding rate was 10 viable seeds per foot of row. The early date test was arranged in incomplete lattice square design with four replications.

Data were collected on seed yield, moisture, lodging, shattering, plant height, and maturity date. Plot yields were adjusted to 13 percent moisture and converted to bushels (60 pounds) per acre. Lodging was scored on a scale of 1 to 5 as follows:

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- 1 - almost all plants erect.
- 2 - either all plants leaning slightly (less than 45°) or a few plants down.
- 3 - either all plants leaning moderately (approximately 45°) or 25 to 50 percent of the plants down.
- 4 - either all plants leaning more than 45° or 50 to 80 percent of the plants down.
- 5 - more than 80 percent of the plants down

Shattering was rated on a scale of 1 to 5 based on performance of the border row 14 days after maturity. A rating of 1 indicates no shattering, a rating of 3 indicates a 4 to 8 percent shattering, and a rating of 5 is 20 percent or more shattering. Plant height was determined by measuring from the ground to the top of the plant at maturity. Maturity date was the day 95 percent of the pods reached mature pod color. Harvest was approximately 7 to 10 days later.

#### SEASONAL CONDITIONS

Rainfall (Table 3) in April and May 1992 was such that planting dates for the standard tests in northern Alabama were delayed. All other standard tests were planted for optimum growth. The normal planting dates for full season plantings in the regular tests are the first week in May, May 15-25, and May 25 to June 5 for northern, central, and southern Alabama locations, respectively. The rainfall for 1992 was normal in May at all locations and was generally adequate for vegetative growth through July in central and southern Alabama.

#### COMPARING VARIETIES

To aid in determining real yield differences, a statistical analysis

of variance is performed on the data from each location. The L.S.D. (least significant difference) and C.V. (coefficient of variation) are given for each location's 1992 test, and for the location's or region's 2- and 3-year averages. The difference in yield of two varieties must exceed the L.S.D. value for one variety to be considered superior to the other in yield in that particular test. The C.V. is a measure of the variability in an experiment. An increase in its value indicates an increase in the unexplained variability.

Since the performance of varieties varies with location and year, long-term averages from several locations are more reliable than 1-year performance. Three-year regional averages are considered a reliable evaluation of the relative performance of varieties.

A committee comprised of Department of Agronomy and Soils personnel involved in soybean extension and research reviewed the past 3 years of soybean variety test data to assemble the list of recommended varieties on page 33. The acceptable varieties are not all equal in performance. Some are outstanding in one or more characteristics; while others may possess a satisfactory, although not outstanding combination of all characteristics.



Table 1. Entries and Sources for 1992

Alabama Farmer's Cooperative Decatur, Alabama	Cobb
Asgrow Seed Co. Moultrie, Georgia	A4715
Bragg Farms Toney, Alabama	Braxton Davis Essex Hutcheson Ransom Stonewall
Capehart Seed Service Holland, Missouri	Stone
Delhi Seed Co., Inc. Delhi, Louisiana	Buckshot brand varieties
Delta and Pine Land Company Scott, Mississippi	Deltapine brand varieties
Department of Agronomy and Soils Auburn University, Alabama	Au87-547
Dixie Ag. Supply Athens, Alabama	Dyna-Gro brand varieties UAP
Eagle Seed Company Weiner, Arkansas	Cajun Riverside brand varieties
Elysian Seed, Inc. Gallion, Alabama	Tracy M
Escambia Farm and Seed Co. Atmore, Alabama	Centennial Kirby Leflore Thomas Wright
Georgia Seed Development Commission Athens, Georgia	Bryan Colquitt Cook Johnston Twiggs
Hy Performer Seed Company Memphis, Tennessee	Hy Performer brand varieties HSC

(Continued on following page)

Table 1 (continued). Entries and Sources for 1992

Jacob Hartz Seed Company, Inc. Suttgart, Arkansas	Hartz brand varieties
Mississippi State University Mississippi State, Mississippi	Sharkey
Northrup King Co. Highland, Illinois	Coker brand varieties S59-60 S62-66 S83-30 X9267
North Carolina State University Raleigh, North Carolina	Brim N85-574 Holladay Young
Pioneer Hi-Bred International, Inc. Tipton, Indiana	Pioneer brand varieties
Stoneville Pedigreed Seed Stoneville, Mississippi	Stoneville brand varieties
South Carolina Crop Impr. Assoc. Clemson, South Carolina	Hagood Perrin Maxcy
Terral-Norris Seed Company, Inc. Lake Providence, Louisiana	Terra-Vig brand varieties
University of Arkansas Fayetteville, Arkansas	Lloyd Narrow M Walters
University of Florida Gainesville, Florida	Howard
University of Missouri Columbia, Missouri	Delsoy 4900 Forrest Pershing Rhodes
Virginia Crop Improv. Assoc. Holley, Virginia	Camp Toano
White Seed Cleaners Dutton, Alabama	Bay

Table 2. Cultural Practices for Soybeans Variety Test in 1992

Location	Type test	Date Planted	Row width	Herbicide used	Fertilizer applied
Belle Mina.....	Standard	May 19	36	Treflan, Scepter	100 lb. 0-0-60/acre
Crossville.....	Standard	May 18	30	Scepter, Dual	100 lb. 0-46-46/acre
Prattville.....	Standard	May 27	30	Prowl	none recommended
Camden.....	Standard	June 2	36	Poast, Scepter	154 lb. 0-26-26/acre
Marion Junction.....	Standard (Sumter)	May 15	36	Prowl, Scepter	50 lb. 0-25-25/acre
	Standard (Vaiden)	May 15	36	Prowl, Scepter	50 lb. 0-25-25/acre
Brewton.....	Early	May 1	36	Dual	500 lb. 5-10-15/acre
	Standard	June 2	36	Dual	none recommended
Headland.....	Standard	June 2	36	Prowl	none recommended
Fairhope.....	Standard	June 11	30	Dual, Gramoxone	165 lb. 0-24-24 + 10 lb. S/acre

Table 3. Rainfall at Test Locations During Growing Season, 1992

Month	Days	Belle Mina	Crossville	Prattville	Marion		Brewton	Headland	Fairhope
		In.	In.	In.	Junction	Camden	In.	In.	In.
May	1-5	0	0	0	0	0	0	0	0
	6-10	0.02	0.26	0.28	0.17	0.15	0.08	0.10	0
	11-15	1.51	1.33	0.23	0.86	0	0	0.15	0
	16-20	0	0	0	0	0	0	0.22	0.03
	21-25	0	0.08	0	0	0.61	0.30	0	0.03
	26-31	<u>0.74</u> 2.27	<u>0.41</u> 2.08	<u>0.66</u> 1.77	<u>0.71</u> 1.74	<u>0.64</u> 1.40	<u>1.77</u> 2.15	<u>2.02</u> 2.49	<u>2.34</u> 2.40
June	1-5	1.13	1.22	1.18	1.79	1.58	1.50	1.94	1.19
	6-10	0.81	1.51	0.48	0.47	1.05	0.87	1.07	0.81
	11-15	1.47	1.04	0.76	1.30	3.78	1.41	0.23	0.92
	16-20	0.01	0.84	1.59	0	0	0.05	0.39	0.05
	21-25	0	0	0	0	0	0	0	0.41
	26-30	<u>5.56</u> 8.98	<u>1.08</u> 5.69	<u>0.02</u> 4.03	<u>0.22</u> 3.78	<u>0</u> 6.41	<u>0.49</u> 4.32	<u>0.21</u> 3.84	<u>1.24</u> 4.62
July	1-5	1.24	1.74	0.94	1.47	2.65	0.75	1.45	0.75
	6-10	0.75	0.27	0.47	0.95	0	0	0.03	0
	11-15	0.01	0.78	0	0	0	0.14	0.29	0.40
	16-20	1.01	0.94	3.77	0.95	1.62	2.23	1.98	1.79
	21-25	0.15	1.01	0.82	1.10	1.30	0.51	2.08	1.78
	26-31	<u>2.65</u> 5.81	<u>0.08</u> 4.82	<u>0.06</u> 6.06	<u>1.01</u> 5.48	<u>0.34</u> 5.91	<u>1.40</u> 5.03	<u>1.61</u> 7.44	<u>0.31</u> 5.03
August	1-5	0.94	0.89	0.35	0.93	0.04	0.14	0.52	0.17
	6-10	0.16	0.38	0.44	0	0	0.53	0	1.85
	11-15	1.59	1.67	0.33	0.50	3.30	1.96	1.14	2.61
	16-20	0	0	0.31	0	0.10	2.40	1.88	0.51
	21-25	0.38	0.43	0.61	0.41	0.37	1.22	1.24	0.38
	26-31	<u>1.21</u> 4.28	<u>1.09</u> 4.46	<u>1.00</u> 3.04	<u>0.90</u> 2.74	<u>0.89</u> 4.70	<u>1.46</u> 7.71	<u>0.09</u> 4.87	<u>0.68</u> 6.20
September	1-5	4.12	2.00	0.52	0.97	1.13	0.42	0.14	0
	6-10	0	0.64	0.55	1.70	0.35	3.82	0.24	0.51
	11-15	0	0.01	0	0.50	0	0	0	0
	16-20	0.66	1.12	0.65	0.85	1.80	0.85	0.02	0.56
	21-25	0.30	0.05	0.60	0.03	0.08	1.27	0.03	0.18
	26-30	<u>0.15</u> 5.23	<u>0.48</u> 4.30	<u>0.11</u> 2.43	<u>0.15</u> 4.20	<u>0.62</u> 3.98	<u>0</u> 6.41	<u>0.31</u> 0.74	<u>0.19</u> 1.44
October	1-5	0.39	0.92	1.36	1.80	0.97	0.98	1.71	1.07
	6-10	0.03	0	0	0	0.01	0	0.01	0
	11-15	0.54	0.70	0.12	0.37	0.75	0.11	0.58	0.02
	16-20	0.61	0.15	0.15	0.15	0.58	0.21	0.02	1.53
	21-25	0	0	0	0	0	0	0	0
	26-31	<u>1.24</u> 2.81	<u>1.29</u> 3.06	<u>0.47</u> 2.10	<u>0</u> 2.32	<u>0.50</u> 2.81	<u>0.23</u> 1.53	<u>0.31</u> 2.63	<u>1.23</u> 3.85

Table 4. Performance of Soybean Varieties in Northern Alabama, 1992

Brand-Variety	Yield Per Acre			Lodging Score	Shattering Score	Regional Average	
	Belle Mina Bu.	Crossville Bu.	Plant Height In.			Maturity Date	
<u>Maturity Group IV</u>							
A 4715.....	49.9	38.8	1.1	0.5	37	9-22	
Delsoy 4900.....	59.2	42.3	2.0	0.5	38	9-28	
Pershing.....	53.5	34.1	1.0	0.5	29	9-29	
Riverside 499.....	61.8	30.0	2.2	0.5	45	9-27	
<u>Maturity Group V</u>							
Bay.....	56.8	29.8	1.4	0.5	37	10-6	
Buckshot 507.....	58.3	37.0	2.9	0.5	38	10-10	
Buckshot 551.....	64.2	41.3	2.2	0.5	34	10-5	
Camp.....	50.7	20.2	1.0	0.6	22	10-3	
Deltapine 105.....	61.8	32.4	2.0	0.5	38	10-7	
Deltapine 3541.....	52.2	35.2	1.6	0.5	42	10-6	
Deltapine 3553.....	55.2	30.7	1.9	0.5	40	10-7	
Deltapine 3589.....	55.9	36.5	2.2	0.5	43	10-11	
Deltapine 415.....	62.6	42.5	1.3	0.5	37	10-7	
Dyna-Grow 3508.....	55.2	29.8	2.5	0.5	37	10-9	
Essex.....	58.8	24.6	1.0	0.5	28	10-1	
Forrest.....	54.8	29.6	2.2	0.5	36	10-7	
Hartz 5164.....	62.9	41.6	2.5	0.5	39	10-9	
Hartz H5350.....	55.2	42.5	1.6	0.5	37	10-8	
Hartz H5566.....	57.5	38.4	2.0	0.5	37	10-9	
Hutcheson.....	60.3	38.0	1.3	0.5	36	10-6	
Hy Performer HSC557....	48.1	35.2	2.9	0.5	44	10-10	
Hy Performer HSC591....	49.4	36.3	2.6	0.5	42	10-11	
Holladay.....	67.3	28.5	1.0	0.5	29	10-1	
Narrow M.....	59.6	35.4	1.3	0.5	35	10-4	
Northrup King Coker 485	70.8	42.9	1.9	0.5	37	10-10	
Northrup King S59-60...	59.7	43.7	2.2	0.5	35	10-8	
Pioneer 9521.....	57.6	45.7	1.3	0.5	35	9-28	
Pioneer 9551.....	50.9	35.8	1.4	0.5	34	10-2	
Pioneer 9592.....	60.5	30.8	2.0	0.5	42	10-11	
Pioneer 9593.....	64.0	43.4	2.1	0.5	39	10-8	
Rhodes.....	57.4	34.1	1.4	0.5	38	10-4	
Riverside 577.....	60.7	41.9	2.9	0.5	39	10-10	
Stoneville 38472.....	53.7	37.5	1.9	0.5	35	10-7	
Stoneville 551.....	59.0	32.9	1.8	0.5	37	10-3	
Terra-Vig 515.....	63.2	35.3	2.0	0.5	37	10-11	
Terra-Vig 5452.....	64.2	31.6	1.9	0.5	36	10-5	
Toano.....	65.7	25.9	1.0	0.5	32	10-3	
UAPX 42.....	50.3	35.5	2.7	0.5	41	10-9	
UAPX 76.....	69.8	32.6	1.6	0.5	32	10-5	
Walters.....	60.7	30.9	2.6	0.5	37	10-6	

Continued on the following page

Table 4 (Continued). Performance of Soybean Varieties in Northern Alabama, 1992

Brand-Variety	Yield Per Acre			Lodging Score	Shattering Score	Regional Average	Maturity Date
	Belle Mina Bu.	Crossville Bu.	Plant Height In.				
<u>Maturity Group VI</u>							
Brim.....	58.8	26.9	1.8	0.6	35	10-9	
Bryan.....	51.4	32.3	1.4	0.5	41	10-13	
Centennial.....	55.9	30.7	1.5	0.5	40	10-12	
Deltapine DP3627.....	53.0	26.1	1.5	0.5	39	10-11	
Deltapine DPX 3606.....	55.6	25.2	2.6	0.5	35	10-10	
Hartz 6686.....	60.1	25.8	1.4	0.5	38	10-11	
Hy Performer HSC 623....	46.5	36.7	2.2	0.5	38	10-12	
Hy Performer HSC B2J....	53.9	39.7	1.9	0.5	40	10-11	
Leflore.....	46.0	35.2	1.9	0.5	41	10-12	
Lloyd.....	42.4	29.1	2.4	0.5	41	10-13	
Northrup King S62-66....	54.0	41.8	2.2	0.5	36	10-13	
Northrup King X9267....	43.2	38.9	1.6	0.5	36	10-11	
Pioneer 9641.....	63.1	30.5	1.6	0.5	39	10-12	
Riverside Cajun.....	68.0	33.1	2.5	0.5	33	10-11	
Sharkey.....	56.3	32.2	3.1	0.5	43	10-14	
Tracy M.....	50.0	29.6	2.0	0.5	36	10-9	
Twiggs.....	52.2	28.0	2.1	0.5	40	10-9	
UAPX 29.....	65.0	26.0	2.4	0.5	41	10-12	
UAPX 36.....	51.7	27.1	1.6	0.5	35	10-13	
Young.....	53.1	29.4	1.9	0.5	41	10-13	
<u>Maturity Group VII</u>							
Braxton.....	36.4	28.3	1.5	0.5	39	10-16	
Stonewall.....	54.9	29.6	2.6	0.5	38	10-13	
Test Means.....	56.6	33.8	1.9	0.5	37		
L.S.D. (.05).....	8.9	8.9					
C.V. (%).....	11.3	19.0					

Table 5. Performance of Soybean Varieties in Northern Alabama, 3-Year Summary, 1990-92

Brand-Variety	Yield Per Acre			3-Year Average			Maturity Date
	1992 Bu.	2-Yr. Av. Bu.	3-Yr. Av. Bu.	Lodging Score	Shattering Score	Plant Height In.	
<u>Maturity Group IV</u>							
Delsoy 4900.....	50.7	42.0	38.2	1.8	0.8	34	9-21
Pershing.....	43.8	36.6	35.4	1.0	0.8	25	9-24
Riverside 499.....	45.9	35.0	32.7	1.8	0.9	38	9-22
A 4715.....	44.3	-	-	-	-	-	-
<u>Maturity Group V</u>							
Northrup King							
Coker 485.....	56.9	45.2	41.7	1.7	0.8	33	10-9
Deltapine 415.....	52.5	42.2	39.1	1.1	0.8	32	10-5
Hartz 5164.....	52.2	41.6	38.3	1.9	0.8	34	10-8
Hutcheson.....	49.2	38.3	37.1	1.2	0.8	29	10-5
Toano.....	45.8	37.9	37.0	1.0	0.8	28	10-1
Riverside 577.....	51.3	39.6	37.0	2.5	0.8	36	10-6
Terra-Vig 515.....	49.3	38.0	35.6	1.8	0.8	33	10-11
Narrow M.....	47.5	38.4	35.5	1.3	0.8	30	10-2
Pioneer 9592.....	45.7	35.9	35.4	1.7	0.8	38	10-8
Walters.....	45.8	36.0	35.1	1.9	0.8	32	10-4
Deltapine 105.....	47.1	36.1	34.9	1.7	0.8	35	10-5
Bay.....	43.3	34.7	34.3	1.3	0.8	33	10-5
Essex.....	41.7	35.1	34.2	1.0	0.8	25	9-27
Forrest.....	42.2	35.0	33.3	1.8	0.8	34	10-4
Rhodes.....	45.8	40.2	-	-	-	-	-
Hartz H5566.....	48.0	39.8	-	-	-	-	-
Buckshot 507.....	47.7	38.7	-	-	-	-	-
Terra-Vig 5452.....	47.9	38.6	-	-	-	-	-
Hy Performer HSC557.	41.6	35.5	-	-	-	-	-
Hy Performer HSC591.	42.9	34.8	-	-	-	-	-
Camp.....	35.4	26.0	-	-	-	-	-
Pioneer 9593.....	53.7	-	-	-	-	-	-
Buckshot 551.....	52.8	-	-	-	-	-	-
Northrup King							
S59-60.....	51.7	-	-	-	-	-	-
Pioneer 9521.....	51.6	-	-	-	-	-	-
UAPX 76.....	51.2	-	-	-	-	-	-
Hartz H5350.....	48.8	-	-	-	-	-	-
Holladay.....	47.9	-	-	-	-	-	-
Deltapine 3589.....	46.2	-	-	-	-	-	-
Stoneville 551.....	46.0	-	-	-	-	-	-
Stoneville 38472....	45.6	-	-	-	-	-	-
Deltapine 3541.....	43.7	-	-	-	-	-	-
Pioneer 9551.....	43.4	-	-	-	-	-	-
Deltapine 3553.....	43.0	-	-	-	-	-	-
UAPX 42.....	42.9	-	-	-	-	-	-
Dyna-Grow 3508.....	42.5	-	-	-	-	-	-

Continued on the following page

Table 5 (Continued). Performance of Soybean Varieties in Northern Alabama, 3-Year Summary, 1990-92

Brand-Variety	Yield Per Acre			3-Year Average			Maturity Date
	1992	2-Yr. Av.	3-Yr. Av.	Lodging	Shattering	Plant Height	
	Bu.	Bu.	Bu.	Score	Score	In.	
<u>Maturity Group VI</u>							
Hy Performer							
HSC B2J.....	46.8	40.6	37.6	1.5	0.8	36	10-9
Riverside Cajun....	50.6	40.0	37.4	1.7	0.8	33	10-11
Pioneer 9641.....	46.8	37.9	36.5	1.6	0.8	35	10-10
Brim.....	42.9	36.6	35.6	1.5	1.0	34	10-10
Bryan.....	41.8	36.9	35.0	1.6	0.8	39	10-14
Centennial.....	43.3	36.8	34.8	1.6	0.8	37	10-13
Hartz 6686.....	42.9	34.7	34.8	1.3	0.8	34	10-12
Sharkey.....	44.2	36.4	34.4	2.7	0.8	41	10-13
Twiggs.....	40.1	35.6	34.0	1.6	0.8	37	10-7
Tracy M.....	39.8	35.0	33.8	1.8	0.9	35	10-10
Leflore.....	40.6	34.6	33.6	1.8	0.8	37	10-13
Young.....	41.2	32.6	32.5	1.9	0.8	38	10-11
Lloyd.....	35.8	32.9	31.0	2.3	0.8	39	10-14
Hy Performer							
HSC 623.....	41.6	36.9	-	-	-	-	-
Deltapine DP3627...	39.5	33.3	-	-	-	-	-
Northrup King							
S62-66.....	47.9	-	-	-	-	-	-
UAPX 29.....	45.5	-	-	-	-	-	-
Northrup King							
X9267.....	41.1	-	-	-	-	-	-
Deltapine DPX 3606.	40.4	-	-	-	-	-	-
UAPX 36.....	39.4	-	-	-	-	-	-
<u>Maturity Group VII</u>							
Stonewall.....	42.3	35.7	35.5	2.1	0.8	35	10-14
Braxton.....	32.3	28.0	31.0	1.7	0.8	38	10-17
Test Means.....	45.2	36.7	35.4	1.7	0.8	34	
L.S.D. (.05).....	8.9	9.7	9.0				
C.V. (%).....	14.2	18.9	18.4				

The planting date for 1-year, 2-year, and 3-year averages was May 19, May 19, and May 17, respectively.



Table 6. Performance of Soybean Varieties in Central Alabama, 1992

Brand-Variety	Yield Per Acre		Regional Average			Maturity Date
	Camden	Prattville	Lodging	Shattering	Plant Height	
	Bu.	Bu.	Score	Score	In.	
<u>Maturity Group V</u>						
Bay.....	31.3	46.0	1.0	0.0	27	10-15
Deltapine 105.....	52.2	50.3	1.3	0.0	36	10-14
Deltapine 415.....	50.3	52.3	1.0	0.0	33	10-12
Essex.....	38.9	49.3	1.0	0.0	23	10-26
Forrest.....	43.5	47.4	1.0	0.0	33	10-11
Hutcheson.....	48.7	52.1	1.0	0.0	27	10-11
Hy Performer						
HSC557.....	44.6	40.7	1.0	0.0	40	10-14
Hy Performer						
HSC591.....	47.2	40.6	1.3	0.0	40	10-19
Northrup King						
Coker 485.....	46.7	43.8	1.0	0.0	33	10-20
Rhodes.....	40.8	41.8	1.0	0.0	33	10-20
Terra-Vig 515.....	45.9	34.9	1.0	0.0	36	10-19
Toano.....	43.8	48.1	1.0	0.0	28	10-29
UAPX 42.....	43.4	47.7	2.7	0.0	40	10-18
Walters.....	44.3	48.5	1.0	0.0	28	10-8
<u>Maturity Group VI</u>						
Brim.....	56.3	39.5	1.3	0.0	40	10-15
Bryan.....	35.1	40.8	1.3	0.0	31	10-22
Buckshot 66.....	44.3	38.5	1.3	0.0	42	10-24
Buckshot 67.....	42.4	35.7	2.5	0.0	40	11-5
Deltapine DP3627...	51.9	39.7	1.3	0.0	38	10-30
Deltapine DPX 3606.	49.6	40.8	1.3	0.0	42	10-23
Deltapine DPX 3682.	44.9	35.0	1.0	0.0	36	10-28
Hartz 6686.....	48.7	44.4	1.0	0.0	34	10-23
Hy Performer						
HSC 623.....	44.0	34.3	2.0	0.0	36	10-31
Leflore.....	46.4	37.4	1.3	0.0	38	10-14
Pioneer 9641.....	47.8	43.8	1.3	0.0	36	10-21
Tracy M.....	34.7	36.4	1.5	0.0	30	10-14
Twiggs.....	45.5	37.3	1.0	0.0	39	10-11
UAPX 29.....	44.3	40.6	1.8	0.0	38	10-18
UAPX 36.....	46.7	39.8	1.0	0.0	32	10-20
Young.....	47.9	38.7	1.5	0.0	40	10-22
<u>Maturity Group VII</u>						
AU 87-547.....	51.9	37.9	1.0	0.0	34	10-17
Braxton.....	44.7	37.2	1.0	0.0	41	10-31
Buckshot 723.....	46.7	35.7	1.0	0.0	42	11-9
Deltapine 3733.....	48.5	42.1	1.3	0.0	38	10-25
Deltapine 3776.....	50.7	40.6	1.0	0.0	41	11-7
N85-574.....	54.0	41.1	1.0	0.0	38	11-7
Northrup King						
Coker 6847.....	43.0	38.7	1.0	0.0	38	11-6
Pioneer 9711.....	48.2	38.3	1.3	0.0	35	10-26
Pioneer 9761.....	54.0	41.4	1.0	0.0	38	10-28
Ransom.....	47.6	32.7	1.0	0.0	37	11-7
Stonewall.....	50.5	35.0	1.0	0.0	37	10-29
Thomas.....	48.1	36.6	1.0	0.0	38	10-28
Wright.....	33.5	39.1	1.5	0.0	30	10-21
<u>Maturity Group VIII</u>						
Cobb.....	42.3	34.7	1.8	0.0	43	11-9
Cook.....	52.2	41.1	1.3	0.0	40	11-4
Johnston.....	49.7	37.7	1.3	0.0	39	11-9
Kirby.....	43.0	30.9	1.0	0.0	36	11-1
Maxcy.....	51.4	35.3	1.5	0.0	39	11-9
Perrin.....	46.5	32.0	1.0	0.0	43	11-9
Test Means.....	46.1	40.3	1.2	0.0	36	
L.S.D. (.05).....	4.7	5.8				
C.V. (%).....	7.4	10.3				

Table 7. Performance of Soybean Varieties in Central Alabama, 3-Year Summary, 1990-92

Brand-Variety	Yield Per Acre			3-Year Average			Maturity Date
	1992	2-Yr. Av.	3-Yr. Av.	Lodging	Shattering	Plant Height	
	Bu.	Bu.	Bu.	Score	Score	In.	
<u>Maturity Group V</u>							
Hutcheson.....	50.4	45.8	38.0	1.0	1.0	27	9-24
Deltapine 415.....	51.3	45.3	37.1	1.0	1.0	30	9-24
Essex.....	44.1	42.8	36.5	1.0	1.3	24	9-24
Toano.....	46.0	41.6	36.3	1.0	1.0	27	9-26
Deltapine 105.....	51.2	42.4	33.9	1.4	0.9	33	9-28
Walters.....	46.4	41.9	33.8	1.0	0.8	29	9-25
Northrup King Coker 485.	45.3	40.5	33.1	1.0	0.8	31	9-30
Forrest.....	45.5	40.8	33.1	1.0	0.8	32	9-25
Bay.....	38.7	38.2	32.2	1.0	1.2	30	9-24
Terra-Vig 515.....	40.4	35.3	29.1	1.0	0.8	33	10-5
UAPX 42.....	45.5	-	-	-	-	-	-
Hy Performer HSC591.....	43.9	-	-	-	-	-	-
Hy Performer HSC557.....	42.6	-	-	-	-	-	-
Rhodes.....	41.3	-	-	-	-	-	-
<u>Maturity Group VI</u>							
Brim.....	47.9	41.8	33.6	1.1	1.0	36	10-2
Young.....	43.3	39.5	31.9	1.2	0.9	37	10-5
Twiggs.....	41.4	36.9	30.6	1.0	0.8	33	9-30
Hartz 6686.....	46.5	37.0	28.6	1.0	0.9	32	10-13
Tracy M.....	35.5	31.5	26.2	1.1	1.0	33	10-5
Leflore.....	41.9	34.1	26.0	1.0	0.9	35	10-11
Pioneer 9641.....	45.8	40.2	-	-	-	-	-
Deltapine DP3627.....	45.8	39.4	-	-	-	-	-
Hy Performer HSC 623.....	39.1	34.3	-	-	-	-	-
Deltapine DPX 3606.....	45.2	-	-	-	-	-	-
UAPX 36.....	43.2	-	-	-	-	-	-
UAPX 29.....	42.5	-	-	-	-	-	-
Buckshot 66.....	41.4	-	-	-	-	-	-
Deltapine DPX 3682.....	39.9	-	-	-	-	-	-
Buckshot 67.....	39.1	-	-	-	-	-	-
Bryan.....	38.0	-	-	-	-	-	-
<u>Maturity Group VII</u>							
Stonewall.....	42.7	35.3	27.6	1.0	0.9	34	10-17
Braxton.....	41.0	31.7	25.3	1.0	0.8	38	10-19
Thomas.....	42.3	33.1	25.3	1.0	0.8	35	10-20
Wright.....	36.3	30.0	23.4	1.2	0.9	35	10-17
N85-574.....	47.6	39.6	-	-	-	-	-
Pioneer 9711.....	43.2	34.5	-	-	-	-	-
Ransom.....	40.2	32.5	-	-	-	-	-
Pioneer 9761.....	47.7	-	-	-	-	-	-
Deltapine 3776.....	45.6	-	-	-	-	-	-
Deltapine 3733.....	45.3	-	-	-	-	-	-
AU 87-547.....	44.9	-	-	-	-	-	-
Buckshot 723.....	41.2	-	-	-	-	-	-
Northrup King Coker 6847	40.9	-	-	-	-	-	-
<u>Maturity Group VIII</u>							
Johnston.....	43.7	35.5	26.6	1.0	0.8	35	10-23
Cobb.....	38.5	33.4	24.3	1.2	0.8	42	10-28
Kirby.....	37.0	29.1	21.8	1.0	0.8	36	10-29
Cook.....	46.6	39.9	-	-	-	-	-
Perrin.....	39.3	32.5	-	-	-	-	-
Maxcy.....	43.4	-	-	-	-	-	-
Test Means.....	43.2	37.3	30.2	1.1	0.9	33	
L.S.D. (.05).....	5.3	5.6	5.2				
C.V. (%).....	8.8	10.8	12.3				

The planting date for 1-year, 2-year, and 3-year averages was May 30, May 30, and May 28, respectively.

Table 8. Performance of Soybean Varieties on Sumter Soil, Marion Junction, Alabama, 1992

Brand-Variety	Yield Per Acre Bu.	Lodging Score	Shattering Score	Average	Maturity Date
				Plant Height In.	
<u>Maturity Group V</u>					
Walters.....	50.3	1.0	1.3	24	9-21
Northrup King Coker 485.....	46.6	1.0	1.3	27	9-27
Terra-Vig 515.....	45.1	1.0	1.5	27	10-7
Hy Performer HSC591.....	42.7	1.0	1.3	30	10-4
Rhodes.....	42.7	1.0	1.3	26	9-23
Narrow M.....	41.4	1.0	1.5	21	9-21
Hy Performer HSC557.....	35.8	1.5	2.0	34	10-4
Toano.....	35.5	1.0	1.8	21	9-17
Stone.....	35.2	1.0	1.8	24	9-29
<u>Maturity Group VI</u>					
Deltapine DPX 3682.....	52.9	1.0	1.5	29	10-11
Centennial.....	46.2	1.0	1.3	31	10-9
Hy Performer HSC B2J.....	45.8	1.0	1.5	26	9-30
Twiggs.....	43.5	1.0	1.3	29	9-30
Hartz 6686.....	42.2	1.0	1.3	29	10-11
Sharkey.....	41.4	1.8	2.0	39	10-14
Hy Performer HSC 623.....	38.0	1.0	1.5	28	10-1
Davis.....	36.6	1.3	1.8	33	10-7
Pioneer 9641.....	34.2	1.0	3.0	26	10-1
Brim.....	33.7	1.3	2.0	32	10-7
Young.....	30.1	1.0	2.5	34	10-1
Bryan.....	26.0	1.0	1.5	26	10-15
<u>Maturity Group VII</u>					
Deltapine 3733.....	53.4	1.0	1.0	30	10-12
Thomas.....	50.7	1.0	1.3	31	10-17
Stonewall.....	47.4	1.0	1.0	30	10-13
Northrup King Coker 6847....	46.7	1.0	1.0	32	10-14
Hagood.....	42.6	2.0	1.8	37	10-15
Deltapine 3776.....	41.7	1.0	1.0	33	10-17
Braxton.....	40.2	1.0	1.3	35	10-19
Howard.....	40.1	1.0	1.3	30	10-19
Colquitt.....	34.9	1.0	1.0	28	10-17
<u>Maturity Group VIII</u>					
Maxcy.....	52.3	1.0	1.0	34	10-18
Cook.....	38.2	1.0	1.0	33	10-21
Johnston.....	33.6	1.0	1.0	30	10-16
Cobb.....	32.3	1.0	2.0	39	10-26
Perrin.....	26.7	1.0	1.0	31	10-24
Test Means.....	40.8	1.1	1.5	30	
L.S.D. (.05).....	9.1				
C.V. (%).....	16.0				

Table 9. Performance of Soybean Varieties on Sumter Soil, Marion Junction, Alabama,  
3-Year Summary, 1990-92

Brand-Variety	Yield Per Acre			3-Year Average			Maturity Date
	1992 Bu.	2-Yr. Av. Bu.	3-Yr. Av. Bu.	Lodging Score	Shattering Score	Plant Height In.	
<u>Maturity Group V</u>							
Walters.....	50.3	40.5	32.6	1.1	1.3	21	9-26
Narow M.....	41.4	35.4	29.3	1.0	1.5	19	9-21
Toano.....	35.5	27.5	23.1	1.0	2.0	19	9-20
Hy Performer HSC591.....	42.7	35.3	-	-	-	-	-
Stone.....	35.2	31.3	-	-	-	-	-
Northrup King Coker 485.	46.6	-	-	-	-	-	-
Terra-Vig 515.....	45.1	-	-	-	-	-	-
Rhodes.....	42.7	-	-	-	-	-	-
Hy Performer HSC557.....	35.8	-	-	-	-	-	-
<u>Maturity Group VI</u>							
Hy Performer HSC B2J....	45.8	39.6	28.8	1.1	2.1	24	10-9
Hartz 6686.....	42.2	35.7	28.1	1.1	1.6	26	10-14
Sharkey.....	41.4	34.3	26.6	1.9	1.6	33	10-17
Bryan.....	26.0	17.1	13.8	1.1	1.8	24	10-16
Deltapine DPX 3682.....	52.9	-	-	-	-	-	-
Centennial.....	46.2	-	-	-	-	-	-
Twiggs.....	43.5	-	-	-	-	-	-
Hy Performer HSC 623....	38.0	-	-	-	-	-	-
Davis.....	36.6	-	-	-	-	-	-
Pioneer 9641.....	34.2	-	-	-	-	-	-
Brim.....	33.7	-	-	-	-	-	-
Young.....	30.1	-	-	-	-	-	-
<u>Maturity Group VII</u>							
Thomas.....	50.7	43.8	32.9	1.1	1.4	26	10-20
Stonewall.....	47.4	41.3	32.6	1.2	1.4	26	10-15
Braxton.....	40.2	34.5	28.5	1.0	1.4	29	10-17
Colquitt.....	34.9	33.9	27.6	1.2	1.3	27	10-16
Hagood.....	42.6	39.7	-	-	-	-	-
Deltapine 3733.....	53.4	-	-	-	-	-	-
Northrup King Coker 6847	46.7	-	-	-	-	-	-
Deltapine 3776.....	41.7	-	-	-	-	-	-
Howard.....	40.1	-	-	-	-	-	-
<u>Maturity Group VIII</u>							
Johnston.....	33.6	31.7	25.8	1.3	1.3	27	10-16
Cobb.....	32.3	28.3	22.7	1.2	1.9	31	10-24
Maxcy.....	52.3	42.8	-	-	-	-	-
Perrin.....	26.7	25.7	-	-	-	-	-
Cook.....	38.2	-	-	-	-	-	-
Test Means.....	40.8	34.4	27.1	1.2	1.6	26	
L.S.D. (.05).....	9.1	9.5	8.4				
C.V. (%).....	16.0	19.7	19.1				

The planting date for 1-year, 2-year, and 3-year averages was May 15, May 29, and May 29, respectively.

Table 10. Performance of Soybean Varieties on Vaiden Soil, Marion Junction, Alabama, 1992

Brand-Variety	Yield Per Acre Bu.	Average		Plant Height In.	Maturity Date
		Lodging Score	Shattering Score		
<u>Maturity Group V</u>					
Hutcheson.....	58.9	1.0	2.2	30	9-23
Northrup King S59-60....	58.4	2.0	2.0	31	9-30
Hartz H5070.....	56.8	1.0	1.8	31	9-29
Forrest.....	56.0	1.0	1.8	36	9-23
Toano.....	54.7	1.0	2.0	31	9-18
Northrup King Coker 485.	53.6	1.0	1.8	32	9-28
Terra-Vig 515.....	53.4	1.3	1.0	31	10-5
Rhodes.....	52.9	1.0	1.8	35	9-23
Deltapine 415.....	52.6	1.0	1.5	33	9-21
Hy Performer HSC591.....	52.5	1.0	1.0	39	10-4
Terra-Vig 5452.....	52.3	1.5	2.0	34	9-23
Deltapine 105.....	50.8	1.5	3.0	35	9-27
Walters.....	50.8	1.5	1.5	30	9-21
Hartz 5164.....	50.8	1.3	1.8	34	9-28
Narow M.....	50.7	1.0	1.5	28	9-21
Stone.....	49.9	1.0	2.0	33	10-1
Hy Performer HSC557.....	46.1	1.5	1.8	39	9-30
<u>Maturity Group VI</u>					
Hartz 6686.....	61.1	1.3	1.0	34	10-10
Brim.....	58.9	1.3	2.2	33	10-5
Hartz H6500.....	56.8	1.0	1.0	34	10-7
Deltapine DP3627.....	56.5	1.5	1.5	37	10-5
Hy Performer HSC 623....	56.2	1.5	2.0	35	10-5
Deltapine DPX 3682.....	55.9	1.0	2.0	36	10-12
Terra-Vig 6653.....	55.3	1.0	1.3	30	10-11
Centennial.....	52.0	1.3	1.0	36	10-9
Northrup King X9267.....	51.8	1.0	1.3	32	10-9
Twiggs.....	50.5	1.0	1.3	35	9-30
Bryan.....	50.0	1.0	1.0	36	10-14
Hy Performer HSC B2J....	49.9	1.3	2.0	34	10-5
Leflore.....	49.3	1.5	1.3	36	10-10
Pioneer 9641.....	49.1	1.5	2.5	35	10-5
Davis.....	47.6	2.5	2.0	40	10-7
Hartz H6372.....	46.6	1.0	1.0	38	10-10
Young.....	46.6	3.0	2.7	40	10-5
Sharkey.....	46.2	2.7	1.3	40	10-11
<u>Maturity Group VII</u>					
N85-574.....	62.8	1.3	1.0	34	10-17
AU 87-547.....	59.4	1.0	1.3	33	10-9
Hartz H7190.....	59.1	1.0	1.0	32	10-21
Colquitt.....	55.3	1.5	1.0	38	10-13
Buckshot 723.....	55.1	2.7	1.0	42	10-18
Deltapine 3733.....	54.2	1.0	1.0	34	10-13
Stonewall.....	53.9	1.0	1.0	36	10-12
Deltapine 3776.....	53.2	1.3	1.5	40	10-13
Pioneer 9711.....	52.4	1.0	1.0	36	10-14
Pioneer 9761.....	52.2	1.0	1.3	36	10-13
Hartz H 7999.....	51.4	1.0	1.0	32	10-3
Hy Performer HSC-721....	51.1	2.2	1.0	35	10-12
Howard.....	49.0	1.3	1.0	37	10-18
Braxton.....	48.5	1.5	1.0	41	10-14
Hagood.....	48.4	3.2	1.5	46	10-15
Northrup King Coker 6847	48.2	1.5	1.3	38	10-14

Continued on the following page

Table 10 (Continued). Performance of Soybean Varieties on Vaiden Soil,  
Marion Junction, Alabama, 1992

Brand-Variety	Yield Per Acre Bu.	Lodging Score	Shattering Score	Average	Maturity Date
				Plant Height In.	
<u>Maturity Group VIII</u>					
Johnston.....	56.7	1.8	1.0	33	10-20
Maxcy.....	55.4	2.0	1.0	36	10-21
Pioneer 9831.....	54.8	1.3	1.0	34	10-15
Cook.....	51.2	1.8	1.0	39	10-17
Kirby.....	48.5	1.3	1.0	36	10-24
Perrin.....	46.4	1.8	1.0	43	10-23
Cobb.....	43.2	2.7	1.8	45	10-28
Test Means.....	52.6	1.4	1.4	35	
L.S.D. (.05).....	6.6				
C.V. (%).....	9.0				

Table 11. Performance of Soybean Varieties on Vaiden Soil, Marion Junction, Alabama,  
3-Year Summary, 1990-92

Brand-Variety	Yield Per Acre			3-Year Average			Maturity Date
	1992	2-Yr. Av.	3-Yr. Av.	Lodging	Shattering	Plant Height	
	Bu.	Bu.	Bu.	Score	Score	In.	
<u>Maturity Group V</u>							
Hutcheson.....	58.9	45.6	41.4	1.0	1.8	24	9-26
Terra-Vig 515.....	53.4	46.2	41.2	1.1	1.3	30	10-7
Northrup King Coker 485.	53.6	45.4	40.9	1.2	1.7	28	10-2
Hartz 5164.....	50.8	46.9	40.3	1.2	1.6	30	10-3
Walters.....	50.8	45.1	39.5	1.2	1.8	26	9-27
Narrow M.....	50.7	42.8	39.4	1.0	1.5	26	9-25
Forrest.....	56.0	43.5	39.4	1.0	1.6	30	9-28
Deltapine 105.....	50.8	44.6	38.3	1.2	2.1	31	10-1
Deltapine 415.....	52.6	38.4	36.0	1.0	1.3	27	9-27
Hy Performer HSC591.....	52.5	52.1	-	-	-	-	-
Stone.....	49.9	44.3	-	-	-	-	-
Hy Performer HSC557.....	46.1	43.2	-	-	-	-	-
Toano.....	54.7	41.5	-	-	-	-	-
Northrup King S59-60....	58.4	-	-	-	-	-	-
Hartz H5070.....	56.8	-	-	-	-	-	-
Rhodes.....	52.9	-	-	-	-	-	-
Terra-Vig 5452.....	52.3	-	-	-	-	-	-
<u>Maturity Group VI</u>							
Hartz 6686.....	61.1	55.3	47.3	1.3	1.2	31	10-12
Deltapine DP3627.....	56.5	50.5	42.1	1.3	1.5	32	10-8
Hartz H6372.....	46.6	48.1	40.9	1.5	1.4	34	10-13
Pioneer 9641.....	49.1	46.9	40.1	1.2	2.6	31	10-6
Brim.....	58.9	46.7	40.0	1.2	2.5	31	10-6
Bryan.....	50.0	44.8	39.7	1.3	1.3	33	10-14
Centennial.....	52.0	46.7	39.6	1.4	1.2	33	10-13
Davis.....	47.6	46.6	38.8	1.9	2.4	34	10-8
Twiggs.....	50.5	45.6	38.1	1.0	1.7	31	10-2
Leflore.....	49.3	44.3	37.6	1.3	1.5	33	10-11
Young.....	46.6	44.1	37.1	1.8	2.2	34	10-6
Sharkey.....	46.2	42.5	36.6	2.4	1.6	35	10-10
Hartz H6500.....	56.8	-	-	-	-	-	-
Hy Performer HSC 623....	56.2	-	-	-	-	-	-
Deltapine DPX 3682.....	55.9	-	-	-	-	-	-
Terra-Vig 6653.....	55.3	-	-	-	-	-	-
Northrup King X9267.....	51.8	-	-	-	-	-	-
Hy Performer HSC B2J....	49.9	-	-	-	-	-	-
<u>Maturity Group VII</u>							
Colquitt.....	55.3	51.9	44.2	1.4	1.0	34	10-16
Hagood.....	48.4	48.9	40.9	2.1	1.3	37	10-17
Hy Performer HSC-721....	51.1	48.6	40.9	2.2	1.3	32	10-15
Northrup King Coker 6847	48.2	45.5	40.2	1.3	1.3	33	10-17
Stonewall.....	53.9	43.5	39.4	1.2	1.3	31	10-15
Braxton.....	48.5	43.7	38.8	1.3	1.0	34	10-17
N85-574.....	62.8	55.0	-	-	-	-	-
Buckshot 723.....	55.1	52.0	-	-	-	-	-
Hartz H7190.....	59.1	51.0	-	-	-	-	-
Pioneer 9711.....	52.4	48.2	-	-	-	-	-
AU 87-547.....	59.4	-	-	-	-	-	-
Deltapine 3733.....	54.2	-	-	-	-	-	-
Deltapine 3776.....	53.2	-	-	-	-	-	-
Pioneer 9761.....	52.2	-	-	-	-	-	-
Hartz H 7999.....	51.4	-	-	-	-	-	-
Howard.....	49.0	-	-	-	-	-	-

Continued on the following page

Table 11 (Continued). Performance of Soybean Varieties on Vaiden Soil, Marion Junction, Alabama, 3-Year Summary, 1990-92

Brand-Variety	Yield Per Acre			3-Year Average			Maturity Date
	1992 Bu.	2-Yr. Av. Bu.	3-Yr. Av. Bu.	Lodging Score	Shattering Score	Plant Height In.	
<b>Maturity Group VIII</b>							
Johnston.....	56.7	52.0	44.2	1.8	1.1	31	10-19
Cobb.....	43.2	41.6	36.5	1.9	1.9	37	10-25
Kirby.....	48.5	41.5	36.2	1.5	1.0	32	10-24
Maxcy.....	55.4	-	-	-	-	-	-
Pioneer 9831.....	54.8	-	-	-	-	-	-
Cook.....	51.2	-	-	-	-	-	-
Perrin.....	46.4	-	-	-	-	-	-
Test Means.....	52.6	46.5	39.9	1.4	1.6	31	
L.S.D. (.05).....	6.6	9.1	7.8				
C.V. (%).....	9.0	8.4	6.2				

The planting date for 1-year, 2-year, and 3-year averages was May 15, May 29, and May 29, respectively.



Table 12. Performance of Soybean Varieties in Southern Alabama, 1992

Brand-Variety	Yield Per Acre		Regional Average			
	Brewton	Headland	Lodging	Shattering	Plant Height	Maturity Date
	Bu.	Bu.	Score	Score	In.	
<u>Maturity Group V</u>						
Deltapine 105.....	57.5	35.1	0.8	0.0	28	9-29
Hutcheson.....	58.4	42.7	0.6	0.0	24	9-29
Hy Performer HSC557.....	50.2	31.5	0.6	0.0	30	10-1
Hy Performer HSC591.....	51.4	26.0	0.6	0.0	28	10-3
Rhodes.....	43.1	24.2	0.6	0.0	25	9-29
Toano.....	44.9	29.0	0.6	1.5	24	10-6
UAPX 42.....	50.5	27.2	1.0	0.0	32	9-30
Walters.....	55.0	24.2	0.5	2.5	22	9-29
<u>Maturity Group VI</u>						
Brim.....	61.8	24.8	0.5	7.5	29	10-4
Bryan.....	48.0	19.4	0.5	0.0	29	10-10
Buckshot 66.....	53.8	20.0	0.5	0.0	33	10-9
Buckshot 67.....	52.3	25.1	0.6	0.0	34	10-10
Davis.....	59.5	25.1	0.5	5.0	31	10-4
Deltapine DP3627.....	53.3	26.3	0.5	0.0	28	10-4
Deltapine DPX 3682.....	55.9	24.8	0.6	2.5	27	10-10
Hartz 6686.....	57.5	24.5	0.5	0.0	27	10-8
Hy Performer HSC 623.....	50.2	26.6	0.9	0.0	28	10-5
Hy Performer HSCB2J.....	50.0	23.0	0.5	0.0	29	10-4
Lloyd.....	51.6	18.5	0.5	0.0	33	10-11
Northrup King X9267.....	52.0	21.5	0.5	0.0	23	10-6
Riverside 699.....	52.9	26.6	0.6	0.0	27	10-3
Riverside Cajun.....	52.1	22.1	0.5	2.5	22	10-4
Terra-Vig 616.....	52.9	18.8	0.5	0.0	30	10-13
Terra-Vig 6653.....	54.6	27.8	0.5	0.0	28	10-8
UAPX 36.....	57.1	28.7	0.5	0.0	25	10-8
Young.....	58.0	29.0	0.6	7.5	31	10-2
<u>Maturity Group VII</u>						
AU 87-547.....	55.7	26.3	0.5	0.0	30	10-8
Braxton.....	52.7	26.9	0.5	0.0	33	10-14
Buckshot 723.....	56.1	21.5	0.9	0.0	33	10-15
Deltapine 3733.....	54.1	26.9	0.5	0.0	27	10-8
Deltapine 3776.....	56.8	28.1	0.6	0.0	28	10-9
Hagood.....	58.2	20.3	0.5	0.0	32	10-16
Howard.....	50.7	20.6	0.5	0.0	31	10-15
Hy Performer HSC-721.....	53.3	19.7	0.6	0.0	28	10-9
Northrup King Coker 6847	51.8	21.5	0.5	0.0	30	10-12
Pioneer 9711.....	50.1	23.3	0.8	0.0	29	10-9
Pioneer 9761.....	55.1	28.1	0.5	0.0	31	10-9
Pioneer 9791.....	51.0	29.9	0.5	0.0	27	10-10
Riverside 757.....	50.5	20.0	0.8	0.0	35	10-15
Stonewall.....	54.7	19.7	0.5	0.0	28	10-10
Terra-Vig 7292.....	45.6	24.5	0.5	0.0	27	10-4
Thomas.....	51.9	20.3	0.5	0.0	27	10-10
UAPX 80.....	50.3	18.1	0.6	0.0	31	10-9
<u>Maturity Group VIII</u>						
Cobb.....	49.2	20.0	0.6	1.5	39	10-29
Cook.....	58.0	25.4	0.6	0.0	32	10-16
Deltapine DPX3818.....	51.7	23.6	0.5	0.0	36	10-13
Johnston.....	56.2	24.5	0.5	0.0	30	10-20
Kirby.....	47.5	17.2	0.5	0.0	31	10-24
Maxcy.....	52.3	21.8	0.5	0.0	31	10-19
Perrin.....	51.2	16.9	0.5	0.0	36	10-23
Test Means.....	53.0	24.4	0.6	0.6	29	
L.S.D. (.05).....	5.7	8.7				
C.V. (%).....	7.7	25.6				

Table 13. Performance of Soybean Varieties at Brewton, Alabama, 3-Year Summary, 1990-92

Brand-Variety	Yield Per Acre			3-Year Average			
	1992	2-Yr. Av.	3-Yr. Av.	Lodging	Shattering	Plant Height	Maturity Date
	Bu.	Bu.	Bu.	Score	Score	In.	
<u>Maturity Group V</u>							
Deltapine 105.....	57.5	55.6	47.1	1.2	1.0	28	9-25
Hutcheson.....	58.4	50.5	44.9	1.1	1.3	22	9-25
Hy Performer HSC591..	51.4	49.7	-	-	-	-	-
Hy Performer HSC557..	50.2	45.2	-	-	-	-	-
Walters.....	55.0	-	-	-	-	-	-
UAPX 42.....	50.5	-	-	-	-	-	-
Toano.....	44.9	-	-	-	-	-	-
Rhodes.....	43.1	-	-	-	-	-	-
<u>Maturity Group VI</u>							
Young.....	58.0	56.1	46.0	1.2	1.0	32	10-2
Davis.....	59.5	55.4	45.0	1.1	1.0	33	10-2
Hartz 6686.....	57.5	53.9	44.2	1.0	1.0	28	10-4
Hy Performer HSC B2J.	50.0	49.1	41.2	1.0	1.0	28	9-30
Terra-Vig 616.....	52.9	50.7	40.8	1.3	1.0	32	10-8
Lloyd.....	51.6	49.4	39.3	1.0	1.0	33	10-7
Bryan.....	48.0	48.7	38.7	1.0	1.0	29	10-6
Riverside 699.....	52.9	51.2	-	-	-	-	-
Riverside Cajun.....	52.1	51.1	-	-	-	-	-
Terra-Vig 6653.....	54.6	50.5	-	-	-	-	-
Hy Performer HSC 623.	50.2	49.6	-	-	-	-	-
Brim.....	61.8	-	-	-	-	-	-
UAPX 36.....	57.1	-	-	-	-	-	-
Deltapine DPX 3682...	55.9	-	-	-	-	-	-
Buckshot 66.....	53.8	-	-	-	-	-	-
Deltapine DP3627.....	53.3	-	-	-	-	-	-
Buckshot 67.....	52.3	-	-	-	-	-	-
Northrup King X9267..	52.0	-	-	-	-	-	-
<u>Maturity Group VII</u>							
Stonewall.....	54.7	52.5	41.3	1.0	1.0	28	10-8
Braxton.....	52.7	49.6	39.5	1.0	1.0	33	10-10
Pioneer 9791.....	51.0	47.9	38.8	1.0	1.0	27	10-10
Northrup King							
Coker 6847.....	51.8	49.2	38.4	1.0	1.0	33	10-10
Thomas.....	51.9	48.9	37.6	1.0	1.0	28	10-11
Riverside 757.....	50.5	49.5	36.7	1.4	1.0	35	10-12
Hagood.....	58.2	52.9	-	-	-	-	-
Buckshot 723.....	56.1	52.0	-	-	-	-	-
Pioneer 9711.....	50.1	50.3	-	-	-	-	-
Hy Performer HSC-721.	53.3	49.5	-	-	-	-	-
Deltapine 3776.....	56.8	-	-	-	-	-	-
AU 87-547.....	55.7	-	-	-	-	-	-
Pioneer 9761.....	55.1	-	-	-	-	-	-
Deltapine.....	54.1	-	-	-	-	-	-
Howard.....	50.7	-	-	-	-	-	-
UAPX 80.....	50.3	-	-	-	-	-	-
Terra-Vig 7292.....	45.6	-	-	-	-	-	-
<u>Maturity Group VIII</u>							
Johnston.....	56.2	50.8	38.4	1.0	1.0	31	10-15
Kirby.....	47.5	45.8	34.7	1.0	1.0	32	10-19
Cobb.....	49.2	42.8	33.2	1.4	1.0	38	10-23
Cook.....	58.0	57.5	-	-	-	-	-
Perrin.....	51.2	48.0	-	-	-	-	-
Maxcy.....	52.3	46.5	-	-	-	-	-
Deltapine DPX3818....	51.7	-	-	-	-	-	-
Test Means.....	53.0	50.3	40.3	1.1	1.0	31	
L.S.D. (.05).....	5.7	7.2	6.3				
C.V. (%).....	7.7	10.2	11.1				

The planting date for 1-year, 2-year, and 3-year averages was June 2, June 4, and May 31, respectively.

Table 14. Performance of Soybean Varieties at Fairhope, Alabama, 1992

Brand-Variety	Yield Per Acre Bu.	Lodging Score	Shattering Score	Average	Maturity Date
				Plant Height In.	
<b>Maturity Group V</b>					
Holladay.....	58.1	1.0	1.0	27	10-1
Hutcheson.....	56.1	1.0	1.0	32	10-1
Hy Performer HSC591.....	52.7	2.0	1.0	40	10-6
Toano.....	51.1	1.0	1.0	32	9-28
Walters.....	50.7	1.5	1.0	35	10-2
Northrup King Coker 485.....	50.5	1.8	1.0	36	10-1
Hartz 5164.....	48.3	2.7	1.0	36	10-4
Rhodes.....	45.7	1.5	1.0	40	9-29
Deltapine 105.....	45.4	3.5	1.0	34	10-4
Hartz H5070.....	43.1	1.0	1.0	40	9-28
Forrest.....	42.1	2.2	1.0	38	9-30
Hy Performer HSC557.....	40.8	1.5	1.0	44	10-2
<b>Maturity Group VI</b>					
Brim.....	57.9	1.3	1.0	43	10-6
Hartz H6500.....	50.2	1.5	1.0	40	10-6
Hy Performer HSC B2J.....	49.2	1.3	1.0	40	10-3
Deltapine DPX 3682.....	48.6	2.0	1.0	40	10-8
Davis.....	48.2	2.2	1.0	42	10-8
Leflore.....	48.1	2.2	1.0	44	10-8
Young.....	47.6	2.2	1.0	40	10-5
Hartz 6686.....	47.5	2.0	1.0	37	10-9
Deltapine DP3627.....	46.1	2.7	1.0	39	10-6
Northrup King S62-66.....	45.2	2.7	1.0	35	10-3
Bryan.....	44.7	1.0	1.0	41	10-9
Twiggs.....	44.7	1.3	1.0	40	10-2
Northrup King X9267.....	44.4	1.0	1.0	37	10-7
Terra-Vig 6653.....	42.9	1.0	1.0	37	10-7
Hartz H6372.....	42.5	2.2	1.0	41	10-8
Sharkey.....	41.9	2.2	1.0	45	10-6
Lloyd.....	38.2	2.2	1.0	46	10-9
Hy Performer HSC 623.....	37.1	4.0	1.0	41	10-6
Tracy M.....	36.4	2.7	1.0	40	10-5
<b>Maturity Group VII</b>					
Hartz H7190.....	50.4	2.0	1.0	37	10-12
Howard.....	49.1	1.5	1.0	37	10-13
Hartz H 7999.....	48.8	1.0	1.0	34	10-4
AU 87-547.....	48.4	1.0	1.0	41	10-6
Terra-Vig 7292.....	47.7	2.5	1.0	36	10-6
Deltapine 3733.....	47.7	1.3	1.0	39	10-10
Buckshot 723.....	46.6	2.5	1.0	48	10-17
Braxton.....	46.3	1.5	1.0	44	10-13
Pioneer 9791.....	46.1	1.5	1.0	39	10-12
N85-574.....	45.4	1.0	1.0	42	10-13
Pioneer 9761.....	44.8	1.0	1.0	41	10-10
Northrup King Coker 6847.....	44.2	1.3	1.0	43	10-13
Colquitt.....	43.5	2.0	1.0	43	10-11
Deltapine 3776.....	42.7	3.0	1.0	42	10-14
Riverside 757.....	42.4	3.2	1.0	42	10-14
Hagood.....	41.9	2.2	1.0	43	10-13
Stonewall.....	40.7	1.3	1.0	41	10-6
Pioneer 9711.....	40.3	3.0	1.0	36	10-8
Ransom.....	39.6	1.3	1.0	41	10-10
Hy Performer HSC-721.....	38.3	2.7	1.0	39	10-9
Thomas.....	37.2	1.8	1.0	40	10-11

Continued on the following page

Table 14 (Continued). Performance of Soybean Varieties at Fairhope, Alabama, 1992

Brand-Variety	Yield Per Acre Bu.	Lodging	Shattering	Average Plant Height	Maturity Date
		Score	Score	In.	
<u>Maturity Group VIII</u>					
Cook.....	48.0	2.5	1.0	41	10-14
Northrup King S83-30.....	45.6	2.5	1.0	45	10-18
Maxcy.....	43.7	3.0	1.0	40	10-16
Kirby.....	43.2	1.0	1.0	37	10-16
Perrin.....	42.4	1.5	1.0	48	10-18
Johnston.....	41.9	2.7	1.0	39	10-16
Deltapine DPX3818.....	41.0	3.0	1.0	48	10-15
Cobb.....	39.8	2.7	1.0	44	10-20
Pioneer 9831.....	38.9	2.7	1.0	39	10-15
Test Means.....	45.3	2.0	1.0	40	
L.S.D. (.05).....	6.3				
C.V. (%).....	10.0				

Table 15. Performance of Soybean Varieties at Fairhope, Alabama,  
3-Year Summary, 1990-92

Brand-Variety	Yield Per Acre			3-Year Average			Maturity Date
	1992	2-Yr. Av.	3-Yr. Av.	Lodging	Shattering	Plant Height	
	Bu.	Bu.	Bu.	Score	Score	In.	
<b>Maturity Group V</b>							
Hutcheson.....	56.1	53.7	45.2	1.0	1.7	28	9-29
Northrup King Coker 485..	50.5	52.6	44.6	1.3	1.3	32	10-2
Walters.....	50.7	49.8	42.8	1.3	1.3	32	9-30
Deltapine 105.....	45.4	49.8	41.7	2.6	1.4	33	10-2
Hartz 5164.....	48.3	48.6	41.7	2.0	1.4	34	10-4
Forrest.....	42.1	46.5	39.1	1.6	1.3	34	9-28
Toano.....	51.1	49.9	-	-	-	-	-
Hy Performer HSC557.....	40.8	44.6	-	-	-	-	-
Holladay.....	58.1	-	-	-	-	-	-
Hy Performer HSC591.....	52.7	-	-	-	-	-	-
Rhodes.....	45.7	-	-	-	-	-	-
Hartz H5070.....	43.1	-	-	-	-	-	-
<b>Maturity Group VI</b>							
Brim.....	57.9	55.8	45.6	1.2	2.1	38	10-6
Deltapine DP3627.....	46.1	51.1	42.5	1.7	1.1	37	10-7
Bryan.....	44.7	50.3	41.2	1.0	1.3	40	10-13
Leflore.....	48.1	48.8	41.0	1.4	1.3	39	10-11
Hartz 6686.....	47.5	51.0	40.5	1.3	1.2	34	10-12
Young.....	47.6	47.5	40.5	1.8	2.5	39	10-6
Twiggs.....	44.7	46.7	40.4	1.1	1.1	35	10-2
Hartz H6372.....	42.5	48.6	40.2	1.4	1.1	37	10-12
Davis.....	48.2	48.9	39.8	1.8	2.4	39	10-9
Sharkey.....	41.9	47.3	39.5	2.0	1.8	42	10-11
Lloyd.....	38.2	45.0	38.7	1.7	1.2	43	10-11
Tracy M.....	36.4	43.7	36.0	1.8	1.9	36	10-7
Hy Performer HSC B2J.....	49.2	51.9	-	-	-	-	-
Terra-Vig 6653.....	42.9	45.8	-	-	-	-	-
Hy Performer HSC 623.....	37.1	45.1	-	-	-	-	-
Hartz H6500.....	50.2	-	-	-	-	-	-
Deltapine DPX 3682.....	48.6	-	-	-	-	-	-
Northrup King S62-66.....	45.2	-	-	-	-	-	-
Northrup King X9267.....	44.4	-	-	-	-	-	-

Continued on the following page

Table 15 (Continued). Performance of Soybean Varieties at Fairhope, Alabama,  
3-Year Summary, 1990-92

Brand-Variety	Yield Per Acre			3-Year Average			Maturity Date
	1992 Bu.	2-Yr. Av. Bu.	3-Yr. Av. Bu.	Lodging Score	Shattering Score	Plant Height In.	
<u>Maturity Group VII</u>							
Hartz H7190.....	50.4	54.4	44.8	1.3	1.0	34	10-14
Pioneer 9791.....	46.1	53.2	41.9	1.3	1.3	36	10-14
Braxton.....	46.3	49.3	40.9	1.2	1.2	41	10-17
Riverside 757.....	42.4	49.2	40.3	2.3	1.3	43	10-18
Northrup King							
Coker 6847.....	44.2	50.1	39.6	1.1	1.1	38	10-16
Hy Performer HSC-721...	38.3	47.4	38.5	2.6	1.2	38	10-13
Pioneer 9711.....	40.3	48.4	38.5	2.4	1.3	34	10-13
Colquitt.....	43.5	47.9	38.3	1.5	1.2	41	10-16
Stonewall.....	40.7	47.2	37.6	1.1	1.6	36	10-11
Thomas.....	37.2	46.0	37.6	1.3	1.3	38	10-15
Ransom.....	39.6	45.6	37.1	1.1	1.0	37	10-13
Hagood.....	41.9	45.9	37.0	1.8	1.0	41	10-18
N85-574.....	45.4	52.2	-	-	-	-	-
Buckshot 723.....	46.6	49.0	-	-	-	-	-
Howard.....	49.1	-	-	-	-	-	-
Hartz H 7999.....	48.8	-	-	-	-	-	-
AU 87-547.....	48.4	-	-	-	-	-	-
Terra-Vig 7292.....	47.7	-	-	-	-	-	-
Deltapine 3733.....	47.7	-	-	-	-	-	-
Pioneer 9761.....	44.8	-	-	-	-	-	-
Deltapine 3776.....	42.7	-	-	-	-	-	-
<u>Maturity Group VIII</u>							
Kirby.....	43.2	47.2	37.2	1.0	1.0	37	10-20
Johnston.....	41.9	46.6	36.5	1.9	1.0	37	10-16
Cobb.....	39.8	43.3	34.0	2.1	1.3	43	10-22
Maxcy.....	43.7	49.6	-	-	-	-	-
Northrup King S83-30...	45.6	49.5	-	-	-	-	-
Deltapine DPX3818.....	41.0	46.5	-	-	-	-	-
Perrin.....	42.4	46.4	-	-	-	-	-
Cook.....	48.0	-	-	-	-	-	-
Pioneer 9831.....	38.9	-	-	-	-	-	-
Test Means.....	45.3	48.6	40.0	1.6	1.4	37	
L.S.D. (.05).....	6.3	5.7	5.4				
C.V. (%).....	10.0	5.9	6.9				

The planting date for 1-year, 2-year, and 3-year averages was June 11, June 8, and June 7, respectively.

Table 16. Performance of Early Planted Soybean Varieties at Brewton, Alabama, 1992

Brand-Variety	Yield Per Acre Bu.	Lodging Score	Shattering Score	Average	Maturity Date
				Plant Height In.	
<u>Maturity Group IV</u>					
A 4715.....	30.1	1.0	0.8	26	9-4
<u>Maturity Group V</u>					
Deltapine 105.....	55.8	1.3	0.0	29	9-19
Hutcheson.....	53.6	1.0	0.0	24	9-19
Riverside 577.....	49.7	1.3	0.0	29	9-18
Pioneer 9592.....	49.2	1.3	0.0	32	9-18
Walters.....	47.3	1.0	0.0	26	9-14
Deltapine 415.....	46.1	1.0	0.0	24	9-11
Forrest.....	41.3	1.0	0.0	26	9-16
Northrup King Coker 485.....	41.0	1.0	0.0	27	9-23
Toano.....	40.9	1.0	0.0	24	9-16
Rhodes.....	36.9	1.0	0.0	25	9-14
Hartz 5164.....	36.5	1.0	0.0	26	9-19
<u>Maturity Group VI</u>					
Brim.....	69.1	1.0	0.0	24	10-3
Hartz 6686.....	66.9	1.0	0.0	21	10-9
Young.....	66.4	1.3	0.0	31	9-30
Deltapine DP3627.....	64.7	1.0	0.0	28	9-30
Davis.....	60.5	1.0	0.0	31	10-8
Lloyd.....	59.5	1.0	0.0	30	10-9
Pioneer 9641.....	58.6	1.0	0.0	26	9-25
Sharkey.....	55.1	1.3	0.0	32	10-11
Leflore.....	52.0	1.0	0.0	27	10-5
Bryan.....	51.2	1.0	0.0	25	10-7
<u>Maturity Group VII</u>					
N85-574.....	62.1	1.0	0.0	23	10-15
Stonewall.....	55.3	1.0	0.0	24	10-13
Test Means.....	52.1	1.1	0.0	27	
L.S.D. (.05).....	6.0				
C.V. (%).....	8.2				

## RECOMMENDED SOYBEAN VARIETIES FOR 1993

This is a list of recommended varieties that was prepared by the authors of this report, D. B. Weaver, Professor of Agronomy and Soils, and J. B. Henderson, Extension Agronomist-Soybeans. Recommendations are listed by their maturity group (MG).

### Northern Alabama

#### MG V

Northrup King  
Coker 485  
Deltapine 415  
Hartz H 5164  
Hutcheson  
Riverside 577  
Terra-Vig 515

#### MG VI

Brim  
Bryan  
Centennial  
Hartz H 6686  
Hy Performer HSC B2J  
Pioneer 9641  
Riverside Cajun  
Sharkey

#### MG VII

Braxton  
Stonewall

### Central Alabama

#### MG V

Northrup King  
Coker 485  
Deltapine 105  
Deltapine 415  
Hutcheson

#### MG VI

Brim  
Hartz H 6686  
Tracy M  
Twiggs  
Young

#### MG VII

Braxton  
Northrup King  
Coker 6847  
Stonewall  
Thomas

#### MG VIII

Cobb  
Cook  
Johnston

### Black Belt (acid soil)

#### MG V

Northrup King  
Coker 485  
Deltapine 105  
Deltapine 415  
Hartz 5164  
Hutcheson  
Terra-Vig 515

#### MG VI

Brim  
Bryan  
Centennial  
Davis  
Deltapine DP 3627  
Hartz 6372  
Hartz 6686  
Pioneer 9641  
Young

#### MG VII

Northrup King  
Coker 6847  
Colquitt  
Hagood  
Hy Performer  
HSC 721  
Stonewall

#### MG VIII

Cobb  
Johnston

(Continued on following page)



Southern Alabama

MG V

Northrup King  
Coker 485  
Deltapine 105  
Deltapine 415  
Hutcheson  
Riverside 577

MG VI

Davis  
Hartz 6686  
Hy Performer  
HSC B2J  
Terra-Vig 616  
Young

MG VII

Braxton  
Northrup King  
Coker 6847  
Pioneer 9791  
Riverside 757  
Stonewall

MG VIII

Cobb  
Cook  
Johnston

Gulf Coast

MG V

Deltapine 105  
Forrest  
Hartz H 5164  
Hutcheson

MG VI

Brim  
Bryan  
Deltapine DP 3627  
Hartz H 6372  
Hartz H 6686  
Leflore  
Twiggs  
Young

MG VII

Braxton  
Northrup King  
Coker 6847  
Hartz H 7190  
Pioneer 9791  
Riverside 757  
Stonewall  
Thomas

MG VIII

Johnston

## APPENDIX

### EVALUATION OF SOYBEAN CULTIVARS FOR REACTION TO FPOGEYE LEAF SPOT, 1992

P.F. Pace, D.B. Weaver, L.D. Ploper<sup>2</sup>

One hundred ten public and private cultivars in Maturity Groups (MG) 4, 5, 6, 7, and 8 were evaluated under controlled conditions for reactions to a virulent isolate of *Cercospora sojina*. The isolate was collected from Kirby soybean at Jay, Florida, during 1991, and was found to be different from described races 1 through 5 based on reaction to differentials (Phytopathology 71:334-336). Cultivars were divided into four MG classes: 4 and 5 (Expt. 1), 5 (Expt. 2), 6 (Expt. 3), and 7 and 8 (Expt. 4) for analysis. A completely randomized design with four replications was used in each experiment. The experimental unit was a single pot with three plants. Seedlings were inoculated at the V2-V3 growth stage by spraying the adaxial and abaxial leaf surfaces with a conidial suspension ( $4-6 \times 10^4$  conidia/mL), using a freon-propelled atomizer. Inoculated plants were placed in a moist chamber for 3 days, then transferred to a greenhouse bench where they were kept at 25 to 30 C. Ratings were made 12-14 days after inoculation. Percent leaflet area infected, using a standard area diagram, was determined on three leaflets per plant.

Most cultivars were rated either susceptible or resistant based on the observed reaction. Some variation was observed among susceptible lines, which may have been the result of differences in leaf developmental stage at the

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<sup>2</sup>Graduate Research Assistant, Professor, Department of Agronomy and Soils, and Visiting Scientist, Plant Pathology.

time of inoculation or modifying (minor) genes for resistance. At least 37% of the lines were susceptible to this isolate. Earlier MG lines had a higher proportion of susceptibles. All lines observed to be resistant in the field at Jay in the 1992 USDA Uniform Tests were rated resistant in this experiment. Young (thought to have the *Rcs<sub>3</sub>* gene for resistance to frogeye) showed a susceptible reaction. The reason for this was not known.

Appendix Table. Evaluation Of Soybean Cultivars For Reaction To Frogeye Leaf Spot, 1992

Cultivar	% Leaf area infected	Cultivar	% Leaf area infected	Cultivar	% Leaf area infected	Cultivar	% Leaf area infected
<u>Expt. 1 (MG 4 and 5)</u>		<u>Expt. 2 (MG 5)</u>		<u>Expt. 3 (MG 6)</u>		<u>Expt. 4 (MG 7 and 8)</u>	
Bay . . . . .	1	Blackhawk* . . . . .	19	Brim . . . . .	1	Au87-547 . . . . .	6
Delsoy 4900 . . . . .	7	Buckshot 507 . . . . .	8	Bryan . . . . .	7	Blackhawk* . . . . .	31
Deltapine DPX 3553 . . . . .	3	Buckshot 551 . . . . .	13	Buckshot 66 . . . . .	6	Bragg . . . . .	17
Deltapine DPX 3589 . . . . .	1	Camp . . . . .	1	Buckshot 67 . . . . .	13	Braxton . . . . .	18
Essex . . . . .	26	Davis** . . . . .	1	Davis** . . . . .	3	Buckshot 723 . . . . .	8
Forrest . . . . .	16	Deltapine DPX 3541 . . . . .	6	Deltapine DP 3627 . . . . .	4	Cobb . . . . .	2
Hartz 5164 . . . . .	20	Deltapine Deltapine 105 . . . . .	10	Deltapine DPX 3606 . . . . .	6	Colquitt . . . . .	16
Hartz Variety H5070 . . . . .	23	Deltapine Deltapine 415 . . . . .	4	Deltapine DPX 3682 . . . . .	4	Cook** . . . . .	0
Hartz Variety H5350 . . . . .	15	Dyna-Gro 3508 . . . . .	4	Hartz 6372 . . . . .	9	Deltapine DP 3733 . . . . .	1
Hartz Variety H5566 . . . . .	23	Hutcheson . . . . .	8	Hartz 6686 . . . . .	0	Deltapine DP 3776 . . . . .	0
Hy Performer HSC 557 . . . . .	17	Hy Performer HSC 591 . . . . .	12	Hartz Variety H6500 . . . . .	15	Deltapine DP 3818 . . . . .	14
Narrow . . . . .	16	N85-578 . . . . .	7	Hy Performer HSC 623 . . . . .	8	Gordon . . . . .	21
Narrow M . . . . .	15	Northrup King Coker 485 . . . . .	10	Hy Performer HSC B2J . . . . .	9	Hagood . . . . .	1
Pershing . . . . .	26	Northrup King S59-60 . . . . .	8	Lamar . . . . .	0	Hartz Variety H7190 . . . . .	2
Pioneer 9521 . . . . .	22	Pioneer 9551 . . . . .	25	Leflore . . . . .	9	Hartz Variety H7999 . . . . .	3
Rhodes . . . . .	20	Pioneer 9592 . . . . .	20	Lloyd . . . . .	17	Howard . . . . .	6
Riverside 499 . . . . .	23	Pioneer 9593 . . . . .	14	Northrup King S62-66 . . . . .	5	Hy Performer HSC 721 . . . . .	3
Riverside Cajun . . . . .	19	Riverside 577 . . . . .	3	Northrup King X9267 . . . . .	3	Johnston . . . . .	7
Stoneville Exp. 38472 . . . . .	15	Stoneville 551 . . . . .	12	Pioneer 9641 . . . . .	4	Kirby . . . . .	11
TN 4-86 . . . . .	4	TN 5-85 . . . . .	10	Riverside 699 . . . . .	9	Maxcy . . . . .	4
Toano . . . . .	1	Terra-Vig 515 . . . . .	7	Terra-Vig 6653 . . . . .	10	Northrup King S83-30 . . . . .	16
		Terra-Vig 5452 . . . . .	2	Tracy M . . . . .	10	Perrin . . . . .	5
		UAPX 42 . . . . .	9	Twiggs . . . . .	17	Pioneer 9711 . . . . .	24
		UAPX 76 . . . . .	8	UAPX 29 . . . . .	4	Pioneer 9761 . . . . .	6
		Walters . . . . .	10	UAPX 36 . . . . .	6	Pioneer 9791 . . . . .	13
				Underwood 607 . . . . .	7	Pioneer 9831 . . . . .	4
				Young . . . . .	15	Ransom . . . . .	4
						Riverside 757 . . . . .	9
		L.S.D. (0.05) . . . . .	8			Stonewall . . . . .	9
				L.S.D. (0.05) . . . . .	12	Terra-Vig 7292 . . . . .	8
						Thomas . . . . .	28
						UAPX 80 . . . . .	4
						Underwood 712A . . . . .	2
						Wright . . . . .	21
						L.S.D. (0.05) . . . . .	8

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\*Susceptible control  
 \*\*Resistant control



